Performance Support System

Technical Manual Maintenance Activity Conference

PROGRAM EXECUTIVE OFFICE
MUW
MINE AND UNDERSEA WARFARE
ASSURED ACCESS

Configuration and Logistics Management
Mine and Undersea Warfare

Performance Support System

Integrated Data Environment
"Take Away"

- Legacy system TMs in different formats
- Inter-operability
- Bandwidth
- Cost Reduction (Tech Data)
- Seamless and Timely Data Deliveries
- Data Accuracy
- Full Service Contractor Support

Performance Support System

Agenda

- Mission and Objectives
- Compliancy
- Architecture
- Integrated Data Environme
- Features
- Interoperability
- Realized Benefits
- Current Projects
- PSS Demonstration

Performance Support System

Mission Statement

- **Mission**:

  Design, develop, integrate, test and deliver a customer focused Performance Support System (PSS) that addresses Intermediate, Organizational and Depot Level support for various Mine and Undersea Warfare platforms

- **Objective**:

  Reduce cost, risk and infrastructure by developing a capability that can be universally applied across multiple weapons system platforms

Performance Support System

IT-21 Compliant

- Non-proprietary Software
- COTS (Hardware & Software)
- NT 4.0 (w/Service Pack 3) Operating System
- Pentium Pro CPU
- 20” Monitor (1280 x 1024) @ 16M Colors
- Shipboard Certified Uninterrupted Power Supply
- Laser Printer
- Speakers
- Upgradeable Hardware and Software
- Stand-alone or Network capability
- NALCOMIS Interface (Prototype)

Performance Support System

Architecture

Logistics Data For Equipment

Potential Application

- A database that contains weapon systems/equipment maintenance/logistics data and training products that are hyperlinked and electronically transportable

- A deployable knowledge management system containing computer based training (CBT), maintenance, supply and administrative data for Organizational, Intermediate and Depot level use

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Performance Support System

Integrated Data Environment

"Variable Information Systems In Our Navy"

VISION is the central engine for concurrently updating all logistical elements and technical data

Global/concurrent updates of logistic elements,
- **Trains "O" & "I" level Technicians**
- **Supports workcenter operations**

iORA

NALCOMIS — **AMTCS**

- **Allowance Parts List/ Supply Support**
- **Planned Maintenance System**
- **Training**
- **Maintenance Plan**
- **Software/ Documents**
- **Support Equipment**
- **Technical Manuals**

Performance Support System

Realized Benefits

- Improved Weapons System Configuration Management
  - Utilizing AV3M and Standard NALDA process
- Central Engine for globally updating all Logistic Elements
- Life cycle cost avoidance
  - Reduced cost associated with:
    - Publications updates
    - Training material updates
    - Improved logistics manageme

Performance Support System

Current Initiatives

Airborne Mine Countermeasures

Surface Mine Countermeasures

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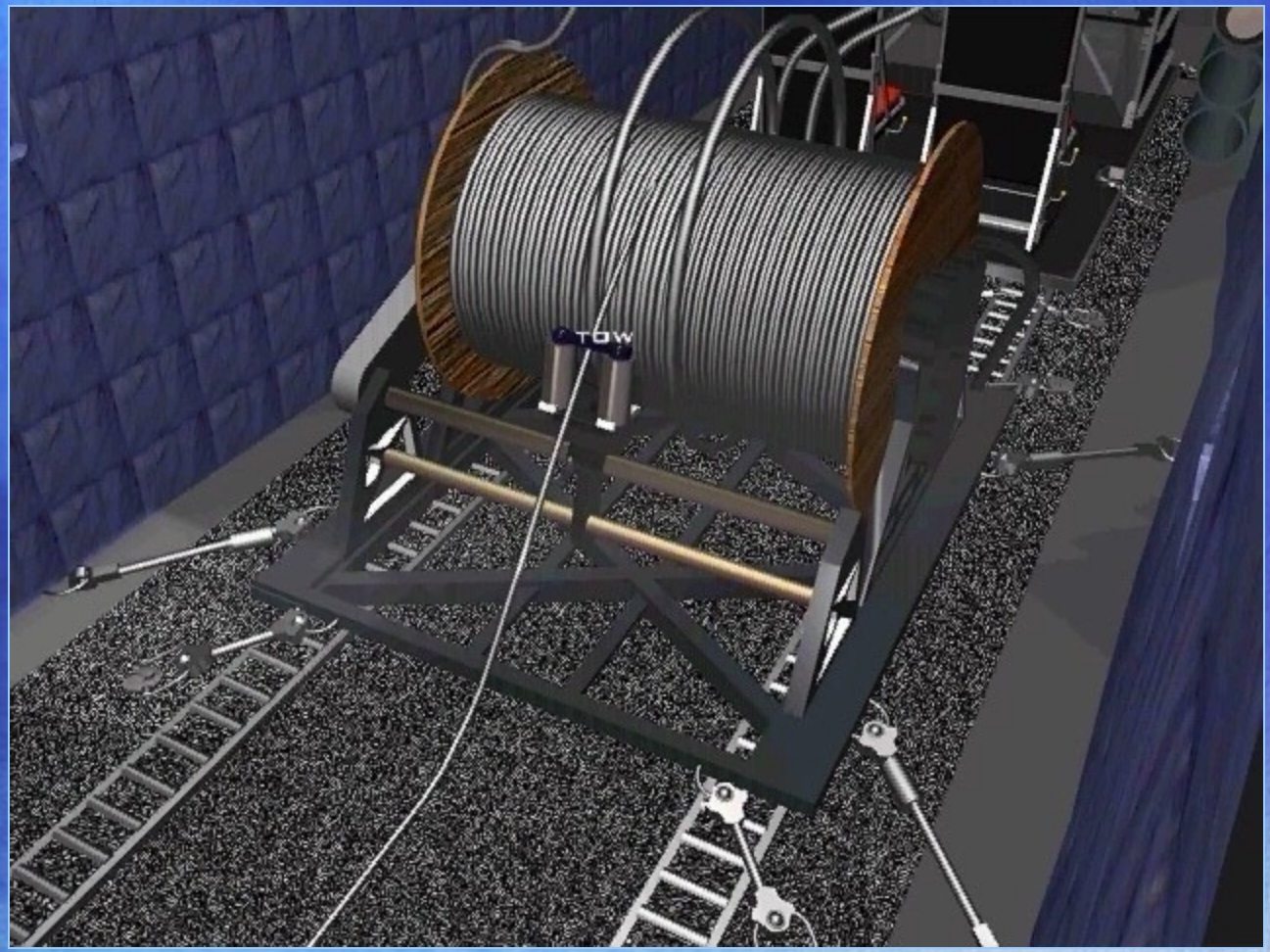
Performance Support System

Tow Cable Demonstration



Performance Support System

PSS Demonstration

Performance Support System

SMCM PSS

AMCM PSS

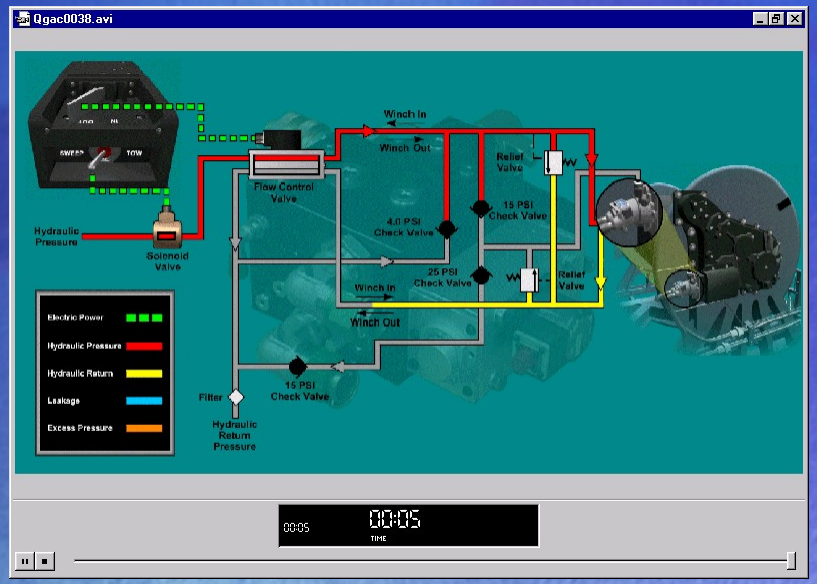
Performance Support System

Features

Performance Support System

Technical Manuals

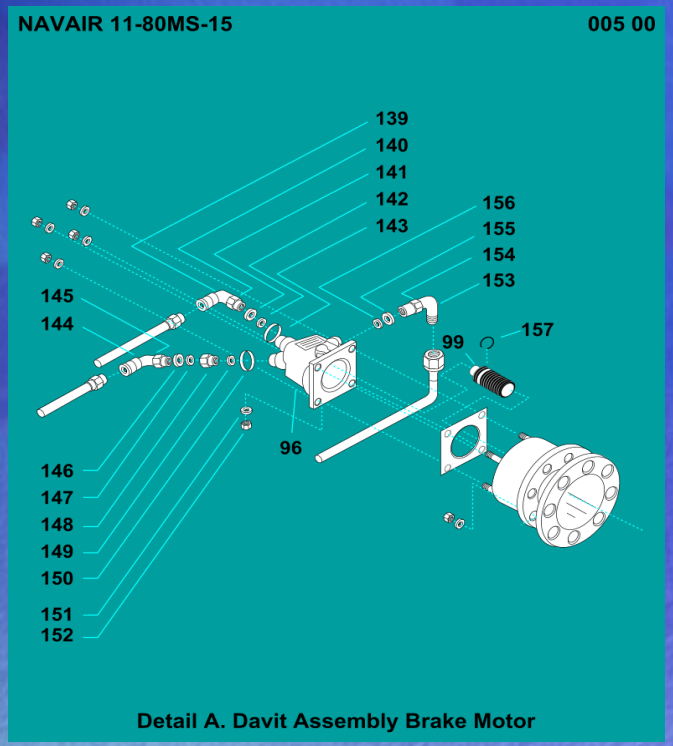
- Flow Control Valve
  - Animations
  - Depicts fluid flow
  - Switch positions
  - Equipment functions



Performance Support System

Supply Support

- Illustrated Parts Breakdown
  - Exploded views
  - Part numbers
  - Nomenclature



Performance Support System

Training Products

- Imagery Files
  - 3-D models
  - 2-D graphics
  - Animation
  - Video
  - Panoramas/Simulations
- Audio Files
- Programming Files
- Student Reference Materials
- Instructor Guides
- Custom Authored System
- Graphics are from 3-D Studio Max
  - Corel Xara
  - PhotoShop
  - Paint Shop Pro

Performance Support System

Measures of Effectiveness

50% time savings were realized in both the classroom and laboratory phases of training

Following introduction of the AQS-14 Console Operator course, class time decreased from 5 days of stand-up instruction, to 2 1/2 days of self-paced CBT

Students entered the laboratory phase of training able to complete detailed system operational checks and perform basic troubleshooting procedures unassisted

Performance Support System

Portability

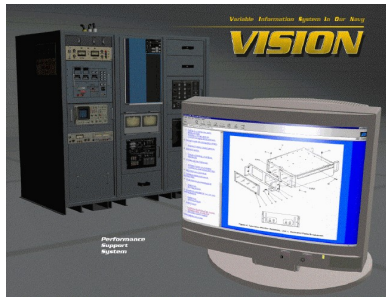
- Complies with DOD Portability Requirements as defined in **DOD Instruction 1322.20 w/chg 1**
- Complies with DON Portability Requirements as defined in **OPNAV Instruction 1500**
- IETMs are in the HTML format IAW MIL-PRF-87269 with user interface per MIL-PRF-87268
- With an IT-21 Computer, information can be accessed from a CD-R[illegible]and Play”

Networked or Laptop

Performance Support System

Interoperability

USN
AMCM



USA UAV

USN/USM
C
Helicopter
s

USN
SMCM

Universally applied across multiple platforms

Performance Support System

WHY?

- What is a Performance Support System?
- What is the purpose of a Performance Support System?
- What does a Performance Support System do that oth like systems don't?

- How is the Performance Support System used within today's fleet environment?

Performance Support System

UAV Launch

Rocket Assisted Take-Off (RATO)

Performance Support System

UAV Recovery

Shipboard Landing